



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/804,096  
Source: IFNO  
Date Processed by STIC: 3/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

*Effective 12/13/03:* TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/804,096

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                    (2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)  
                    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)  
                    This sequence is intentionally skipped  
  
                    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                    <210> sequence id number  
                    <400> sequence id number  
                    000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ✓ Use of <220>     Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                    (Sec "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

3 <110> APPLICANT: Societe Des Produits Nestle S.A.  
 5 <120> TITLE OF INVENTION: COFFEE PLANT WITH REDUCED a-D-GALACTOSIDASE ACTIVITY  
 7 <130> FILE REFERENCE: 88265-6868  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/804,096  
 C--> 9 <141> CURRENT FILING DATE: 2004-03-19  
 9 <150> PRIOR APPLICATION NUMBER: PCT/US02/09148  
 10 <151> PRIOR FILING DATE: 2002-08-15  
 12 <160> NUMBER OF SEQ ID NOS: 21  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 1442  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: coffee  
 21 <400> SEQUENCE: 1  
 22 tgctccacaa agcagtgcca attgagttga ttgatcaaca ccaatttacc atggccgctg 60  
 24 cttattacta ccttttttct agtaaaaaaa gccaccaaaa gctggtgctc cgagcttcgt 120  
 26 tattgatgtt tttatgtttc ttggcggttg aaaacgttgg tgcttccgct cgccggatgg 180  
 28 tgaagtctcc aggaacagag gattacactc gcaggagcct tttagcaa at gggcttggtc 240  
 30 taacaccacc gatggggtgg aacagctgga atcatttcag ttgtaatctt gatgagaa at 300  
 32 tgatcagggg aacagccgat gcaatggcat caaaggggct tgctgcactg ggatataagt 360  
 34 acatcaatct tgatgactgt tgggcagaac ttaacagaga ttcacagggg aatttgggtc 420  
 36 ctaaagggtc aacattccca tcagggatca aagccttagc agattatgtt cacagcaa ag 480  
 38 gcctaaagct tggaaattac tctgatgctg gaactcagac atgtagtaaa actatgccag 540  
 40 gttcattagg acacgaagaa caagatgcca aaacctttgc ttcattgggg gttgattact 600  
 42 taaagtatga caactgtaac gacaacaaca taagcccaaa ggaaaggat ccaatcatga 660  
 44 gtaaagcatt gttgaactct ggaaggtcca tttttttctc tctatgtgaa tggggagatg 720  
 46 aagatccagc aacatgggca aaagaagttg gaaacagttg gagaaccact ggagatatag 780  
 48 atgacagttg gactagcatg acttctcggg cagatatgaa cgacaaatgg gcatcttatg 840  
 50 ctgggtcccg tggatggaat gatcctgaca tgttgagggt gggaaatgga ggcattgacta 900  
 52 caacggaata tcgatcccat ttcagcattt gggcattagc aaaagcacct ctactgattg 960  
 54 gctgtgacat tcgatccatt gacggtgcga ctttccaact gtttaagcaat gcggaagtta 1020  
 56 ttgcggttaa ccaagataaa cttggcggtc aagggaaaaa ggttaagact tacggagatt 1080  
 58 tggaggtgtg ggctggacct cttagtggaa agagagtagc tgctcgctttg tggaaatagag 1140  
 60 gatcttccac ggctactatt accgcgtatt ggtccgacgt aggcctcccg tccacggcag 1200  
 62 tgggttaatgc acgagactta tgggcgcatt caaccgaaaa atcagtcaaa ggacaaatct 1260  
 64 cagctgcagt agatgccac gattcgaaaa tgtatgtcct aacccacag tgattaacag 1320  
 66 gagaatgcag aagacaagt atggttggtc ctttcaagga tttgattacc ttaaagaatt 1380  
 68 tttcacatgt tatgaatcaa ttcaaagcaa ttatgtgttt tgaagagatt aagtcaataa 1440  
 70 at 1442  
 73 <210> SEQ ID NO: 2  
 74 <211> LENGTH: 420  
 75 <212> TYPE: PRT  
 76 <213> ORGANISM: coffee

Does Not Comply  
Corrected Diskette Needed

(pg. 4)

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TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

78 &lt;400&gt; SEQUENCE: 2

```

80 Met Ala Ala Ala Tyr Tyr Tyr Leu Phe Ser Ser Lys Lys Ser His Gln
81 1      5      10      15
84 Lys Leu Val Leu Arg Ala Ser Leu Leu Met Phe Leu Cys Phe Leu Ala
85      20      25      30
88 Val Glu Asn Val Gly Ala Ser Ala Arg Arg Met Val Lys Ser Pro Gly
89      35      40      45
92 Thr Glu Asp Tyr Thr Arg Arg Ser Leu Leu Ala Asn Gly Leu Gly Leu
93      50      55      60
96 Thr Pro Pro Met Gly Trp Asn Ser Trp Asn His Phe Ser Cys Asn Leu
97 65      70      75      80
100 Asp Glu Lys Leu Ile Arg Glu Thr Ala Asp Ala Met Ala Ser Lys Gly
101      85      90      95
104 Leu Ala Ala Leu Gly Tyr Lys Tyr Ile Asn Leu Asp Asp Cys Trp Ala
105      100      105      110
108 Glu Leu Asn Arg Asp Ser Gln Gly Asn Leu Val Pro Lys Gly Ser Thr
109      115      120      125
112 Phe Pro Ser Gly Ile Lys Ala Leu Ala Asp Tyr Val His Ser Lys Gly
113      130      135      140
116 Leu Lys Leu Gly Ile Tyr Ser Asp Ala Gly Thr Gln Thr Cys Ser Lys
117 145      150      155      160
120 Thr Met Pro Gly Ser Leu Gly His Glu Glu Gln Asp Ala Lys Thr Phe
121      165      170      175
124 Ala Ser Trp Gly Val Asp Tyr Leu Lys Tyr Asp Asn Cys Asn Asp Asn
125      180      185      190
128 Asn Ile Ser Pro Lys Glu Arg Tyr Pro Ile Met Ser Lys Ala Leu Leu
129      195      200      205
132 Asn Ser Gly Arg Ser Ile Phe Phe Ser Leu Cys Glu Trp Gly Asp Glu
133      210      215      220
136 Asp Pro Ala Thr Trp Ala Lys Glu Val Gly Asn Ser Trp Arg Thr Thr
137 225      230      235      240
140 Gly Asp Ile Asp Asp Ser Trp Ser Ser Met Thr Ser Arg Ala Asp Met
141      245      250      255
144 Asn Asp Lys Trp Ala Ser Tyr Ala Gly Pro Gly Gly Trp Asn Asp Pro
145      260      265      270
148 Asp Met Leu Glu Val Gly Asn Gly Gly Met Thr Thr Thr Glu Tyr Arg
149      275      280      285
152 Ser His Phe Ser Ile Trp Ala Leu Ala Lys Ala Pro Leu Leu Ile Gly
153      290      295      300
156 Cys Asp Ile Arg Ser Ile Asp Gly Ala Thr Phe Gln Leu Leu Ser Asn
157 305      310      315      320
160 Ala Glu Val Ile Ala Val Asn Gln Asp Lys Leu Gly Val Gln Gly Lys
161      325      330      335
164 Lys Val Lys Thr Tyr Gly Asp Leu Glu Val Trp Ala Gly Pro Leu Ser
165      340      345      350
168 Gly Lys Arg Val Ala Val Ala Leu Trp Asn Arg Gly Ser Ser Thr Ala
169      355      360      365
172 Thr Ile Thr Ala Tyr Trp Ser Asp Val Gly Leu Pro Ser Thr Ala Val
173      370      375      380

```

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Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

```

176 Val Asn Ala Arg Asp Leu Trp Ala His Ser Thr Glu Lys Ser Val Lys
177 385                      390                      395                      400
180 Gly Gln Ile Ser Ala Ala Val Asp Ala His Asp Ser Lys Met Tyr Val
181                      405                      410                      415
184 Leu Thr Pro Gln
185                      420
188 <210> SEQ ID NO: 3
189 <211> LENGTH: 17
190 <212> TYPE: DNA
191 <213> ORGANISM: artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: primer
196 <400> SEQUENCE: 3
197 atggtgaagt ctccagg                                     17
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 17
202 <212> TYPE: DNA
203 <213> ORGANISM: artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 4
209 tcactgtggg gttagga                                     17
212 <210> SEQ ID NO: 5
213 <211> LENGTH: 23
214 <212> TYPE: DNA
215 <213> ORGANISM: artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: primer
220 <400> SEQUENCE: 5
221 tgctccacaa agcagtggca att                               23
224 <210> SEQ ID NO: 6
225 <211> LENGTH: 23
226 <212> TYPE: DNA
227 <213> ORGANISM: artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: primer
232 <400> SEQUENCE: 6
233 atttattgac ttaatctctt caa                               23
236 <210> SEQ ID NO: 7
237 <211> LENGTH: 35
238 <212> TYPE: DNA
239 <213> ORGANISM: artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: primer
244 <400> SEQUENCE: 7
245 cggggtaccc cgctctcttt cttttggagt acaag                35
248 <210> SEQ ID NO: 8
249 <211> LENGTH: 35
250 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

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TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

251 <213> ORGANISM: artificial  
253 <220> FEATURE:  
254 <223> OTHER INFORMATION: primer  
256 <400> SEQUENCE: 8  
257 cgcggatccg cgtctctgac aacagaggag agtgt 35  
260 <210> SEQ ID NO: 9  
261 <211> LENGTH: 12  
262 <212> TYPE: DNA  
263 <213> ORGANISM: artificial  
265 <220> FEATURE:  
266 <223> OTHER INFORMATION: unknown  
268 <400> SEQUENCE: 9  
269 cggggtaccc cg 12  
272 <210> SEQ ID NO: 10  
273 <211> LENGTH: 12  
274 <212> TYPE: DNA  
275 <213> ORGANISM: artificial  
277 <220> FEATURE:  
278 <223> OTHER INFORMATION: unknown  
280 <400> SEQUENCE: 10  
281 cgcggatccg cg  
284 <210> SEQ ID NO: 11  
285 <211> LENGTH: 36  
286 <212> TYPE: DNA  
287 <213> ORGANISM: artificial  
289 <220> FEATURE:  
290 <223> OTHER INFORMATION: primer  
292 <400> SEQUENCE: 11  
293 cggggtaccc cgacaaaaga ttgaacaata catgtc 36  
296 <210> SEQ ID NO: 12  
297 <211> LENGTH: 35  
298 <212> TYPE: DNA  
299 <213> ORGANISM: artificial  
301 <220> FEATURE:  
302 <223> OTHER INFORMATION: primer  
304 <400> SEQUENCE: 12  
305 cgcggatccg cggagctcga atttccccga tcgtt 35  
308 <210> SEQ ID NO: 13  
309 <211> LENGTH: 35  
310 <212> TYPE: DNA  
311 <213> ORGANISM: artificial  
313 <220> FEATURE:  
314 <223> OTHER INFORMATION: primer  
316 <400> SEQUENCE: 13  
317 cggggtaccc cggaattccc gatctagtaa catag 35  
320 <210> SEQ ID NO: 14  
321 <211> LENGTH: 35  
322 <212> TYPE: DNA  
323 <213> ORGANISM: artificial

Please explain source of genetic material  
Invalid Response  
Please explain source of gene for material C.  
Invalid Response  
Please see item # 11 on error summary sheet.

## RAW SEQUENCE LISTING

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TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

```

325 <220> FEATURE:
326 <223> OTHER INFORMATION: primer
328 <400> SEQUENCE: 14
329 cgcggatccg cgtgctccac aaagcagtgg caatt 35
332 <210> SEQ ID NO: 15
333 <211> LENGTH: 35
334 <212> TYPE: DNA
335 <213> ORGANISM: artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: primer
340 <400> SEQUENCE: 15
341 cgcggatccg cgatttattg acttaatctc ttcaa 35
344 <210> SEQ ID NO: 16
345 <211> LENGTH: 35
346 <212> TYPE: DNA
347 <213> ORGANISM: artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: primer
352 <400> SEQUENCE: 16
353 cacgcgtcga cgctccaccg cggtaggcggc cgctc 35
356 <210> SEQ ID NO: 17
357 <211> LENGTH: 23
358 <212> TYPE: DNA
359 <213> ORGANISM: artificial
361 <220> FEATURE:
362 <223> OTHER INFORMATION: primer
364 <400> SEQUENCE: 17
365 gggccccccc tcgaggtcga cgg 23
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 23
370 <212> TYPE: DNA
371 <213> ORGANISM: artificial
373 <220> FEATURE:
374 <223> OTHER INFORMATION: primer
376 <400> SEQUENCE: 18
377 ttcttttggt cctcggctgt ttg 23
380 <210> SEQ ID NO: 19
381 <211> LENGTH: 24
382 <212> TYPE: DNA
383 <213> ORGANISM: artificial
385 <220> FEATURE:
386 <223> OTHER INFORMATION: primer
388 <400> SEQUENCE: 19
389 ccaaacaatca aacttctcgc aatc 24
392 <210> SEQ ID NO: 20
393 <211> LENGTH: 27
394 <212> TYPE: DNA
395 <213> ORGANISM: artificial
397 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004  
TIME: 16:15:29

Input Set : A:\88265-6868.txt  
Output Set: N:\CRF4\03252004\J804096.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21



**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/10/804,096**

DATE: 03/25/2004

TIME: 16:15:29

Input Set : **A:\88265-6868.txt**

Output Set: **N:\CRF4\03252004\J804096.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date